



1  
00:00:00,690 --> 00:00:04,040

“Here’s some of the stories trending This Week at NASA!”

2  
00:00:04,040 --> 00:00:10,009

At the Newseum in Washington, we teamed with representatives from other federal agencies

3  
00:00:10,009 --> 00:00:15,969

and science organizations to delve into the science behind the upcoming August 21 total

4  
00:00:15,969 --> 00:00:22,690

solar eclipse, and provide details on how to safely view the once-in-a-century phenomenon.

5  
00:00:22,690 --> 00:00:28,199

During the eclipse, 14 states across the U.S. will experience more than two minutes of darkness

6  
00:00:28,199 --> 00:00:31,890

– while those elsewhere will have a partial eclipse.

7  
00:00:31,890 --> 00:00:37,420

Meanwhile a new eclipse Forever stamp, unveiled by the U.S. Postal service changes between

8  
00:00:37,420 --> 00:00:41,620

images of an eclipse and the moon – with the touch of a finger.

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00:00:41,620 --> 00:00:47,640

The eclipse and moon images were taken by a retired NASA astrophysicist.

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00:00:47,640 --> 00:00:54,539

A mission catalog released June 19 by our Kepler space telescope team includes 219 new

11  
00:00:54,539 --> 00:01:00,510  
planet candidates found outside our solar system – also known as exoplanets. 10 of

12  
00:01:00,510 --> 00:01:05,680  
these are near-Earth size and orbit within the range of distance from their host star

13  
00:01:05,680 --> 00:01:10,730  
that makes it possible for liquid water to pool on the surface of a rocky planet.

14  
00:01:10,730 --> 00:01:16,210  
With the release of this catalog there are now 4,034 planet candidates identified by

15  
00:01:16,210 --> 00:01:23,480  
Kepler -- 2,335 of those have been verified as exoplanets.

16  
00:01:23,480 --> 00:01:28,580  
Our Acting Administrator Robert Lightfoot traveled to Europe to meet international partners

17  
00:01:28,580 --> 00:01:32,370  
and inspire the next generation of explorers.

18  
00:01:32,370 --> 00:01:37,290  
While at the 52nd International Paris Air Show – which showcases the best in aeronautics

19  
00:01:37,290 --> 00:01:42,600  
and space technology from around the world – Lightfoot signed a joint statement committing

20  
00:01:42,600 --> 00:01:46,370  
to future collaboration with the French Space Agency, CNES.

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00:01:46,370 --> 00:01:52,410

An agreement was also signed with ASI – the Italian Space Agency – on development of

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00:01:52,410 --> 00:01:57,820

a mission in 2020 to explore some of the most turbulent and extreme environments in our

23

00:01:57,820 --> 00:01:59,070

universe.

24

00:01:59,070 --> 00:02:04,431

The trip also included a stop in Bremen, Germany where he met with representatives of the German

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00:02:04,431 --> 00:02:10,319

Space Agency, saw the hardware being built for our Orion spacecraft's European Service

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00:02:10,319 --> 00:02:16,570

Module, and visited with students and faculty at the University of Bremen.

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00:02:16,570 --> 00:02:22,090

On June 18, outside the International Space Station, NASA conducted an experiment to test

28

00:02:22,090 --> 00:02:26,310

the operation and performance of a new type of solar array.

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00:02:26,310 --> 00:02:30,710

The Roll-Out Solar Array (ROSA) – which resembles one of those party favors you blow

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00:02:30,710 --> 00:02:37,280

into to extend – is more compact and lightweight than current rigid solar array panels.

31

00:02:37,280 --> 00:02:44,590

The new design could be used on future communications, weather, and GPS satellites.

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00:02:44,590 --> 00:02:46,709

And that's what's up this week @NASA ...

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